Massachusetts Institute of Technology
Instrumentation Laboratory
Cambridge, Massachusetts

LUMINARY Memo# 96

TO: Distribution
FROM: B. McCoy
DATE: July 14, 1969
SUBJECT: Level 3 Test Plan for LUMINARY1B

Essentially, this testing effort is to test each change made to the LUMINARY 1B rope resulting from the following PCR's and Anomalies:

TEST #	ANOM/PCR	DESCRIPTION	ENGINEER
3.1	LNY 58	It is possible to enter a program which uses the RR or LR while R12 is reading the LR.	Moore
3.2	LNY 64	Restart occurring in P63.	Adler
3.3	LNY 72	Program alarm light every 2 sec. after V32E to 523 alarm.	Moore
3.4	PCR 817	Eliminate undesirable LR position alarm from R12	Covelli
3.5	PCR 820	Eliminate lighting of ALT light when low scale discrete is absent.	Moore
3.6	LNY 61	If a restart occurs during the trunnion or shaft incorporations of P20 Rend. Nav., an incorrect State Vector Update can occur.	Volante
3.7	LNY 66	R04 Erasable Conflict with R65	Stoppelman
3.8	LNY 71	In P22 Lunar Surface Nav. the RR pre-designate routine stores into erasable used by orbital integration.	Dunbar
3.9	PCR 780	Provide pure RR Range, Range rate and time lag during P20, P22 and P25.	
3.10	PCR 807.2	Add present time to P21.	Crocker
3.11	PCR 812.2	Resetting and Setting of the External ΔV Flag.	White

TEST#	ANOM/PCR	DESCRIPTION	ENGINEER
3.12	PCR 818	Permit rejection of individual measurement incorporation in P20.	Volante
3.13	PCR 823	Delete P31 from Lum. 1B.	Adler
3.14	LNY 87	In P22 the flashing V50 N72 is displayed following radar lock-on in R21.	Volante
3.15	LNY 62	Abort programs do not alter current autopilot deadband.	Bernikowich
3.16	PCR 826.2	Reverse P76 Displays.	Crocker
3.17	PCR 279	Variable Insertion Computation.	Schulenberg
3.18	LNY 63	DPS Engine Failure in P40.	Adler
3.19	LNY 73	Bug in recycle option to N61 in P63	Adler
3.20	PCR 830	Supplementary ASTEER Modification	Adler
3.21	LNY 68	P57 IMU Compensation Conflict	Millard
3.22	LNY 74	Erasable Conflict when LOCSAM (i.e., LSPOS)	Millard
3.23	PCR 825.2	Display Option 3 in P52/P54	Millard
3.24	LNY 69	Eliminate Coding error causing downward jet firing.	Goss
3.25	PCR 816	Modify R03 to permit astronaut setting of 1° deadband.	Kalan
3.26	LNY 67	Make ATTSTALL 1210 into BAILOUT instead of POODOO.	Rye
3.27	PCR 773.2	Fix Constants for Planetary Inertial Subroutine	Stoppelman
3.28	PCR 776.2	Improve R2 Model Timing	M. Albert
3.29	PCR 779	Leave Track Enable Set when R29 is Terminated	Volante
3.30	PCR 781.2	PIPA Bias Compensation Scale	Grace
3.31	PCR 791.2	Do no allow a PROCEED Response to V21, V22, V23.	Vella
3.32	PCR 798.2	Reset GLOKFAIL in R00.	Hughes
3.33	PCR 801.2	Make BAILOUT alarms start with 3XXXX and POODOO alarms start with 2XXXX.	Rye
3.34	PCR 802.2	Save alarm data after "Error Reset".	Hughes
3.35	PCR 805	Do not allow V66 on the Surface.	Hughes
3.36	PCR 814(Rev)	Reduce Keystrokes required to check and approve LR data.	Rye/Eyles
3.37	PCR 277	A fix to DUMPCNT	Densmore

TEST#	ANOM/PCR	DESCRIPTION	ENGINEER
3.38	PCR 827	Add Z DOTD to Ascent/Descent Down-list	Schulenberg
3.39	LNY 77	No takeover when Abort from P60's	Bernikowich
3.40	---	Radar Interface Software Fix	Adler
3.41	LNY 76	N60 Made to be HCALC1 (ALTRATE)	Moore
3.42	PCN 831.2	Lambert Overflow Protection	Robertson
3.43	PCR 836	Define Actual Restrictions or Running R05	DeCain
3.44	PCR 838	Prevent RCS Firings or Lunar Surface	Moore
3.45	PCR 839	R12 and LR Re-position Routine Improvements	Moore
3.46	PCR 840	Reduce Attitude Oscillation in P64/65.	Kalan